

1                   INTEGRATED BI-DIRECTIONAL OPTICAL TRANSCEIVER

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3                   ABSTRACT

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5       An integrated bi-directional optical transceiver is  
6 disclosed, which includes a package that incorporates a  
7 header. An optical fiber extends into the package, and is  
8 secured thereby adjacent the header. A chip-level optical  
9 transceiver is supported by a bench carried by the header in a  
10 tilted state aligning the chip-level optical transceiver  
11 components with the optical fiber.